



0390  
0303

## RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 101038,895  
Source: 01PE  
Date Processed by STIC: 3/3/03

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.

PATENTIN 2.1 e-mail help: [patin21help@uspto.gov](mailto:patin21help@uspto.gov) or phone 703-306-4119 (R. Wax)

PATENTIN 3.0 e-mail help: [patin3help@uspto.gov](mailto:patin3help@uspto.gov) or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER  
VERSION 3.1 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND  
TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/ebs/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: U.S. Patent and Trademark Office, Box Sequence, P.O. Box 2327, Arlington, VA 22202
3. Hand Carry directly to:  
U.S. Patent and Trademark Office, Technology Center 1600, Reception Area, 7<sup>th</sup> Floor, Examiner Name, Sequence Information, Crystal Mall One, 1911 South Clark Street, Arlington, VA 22202  
Or  
U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202
4. Federal Express, United Parcel Service, or other delivery service to: U.S. Patent and Trademark Office, Box Sequence, Room 1B03-Mailroom, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202

# Raw Sequence Listing Error Summary

0198

| ERROR DETECTED   | SUGGESTED CORRECTION   | SERIAL NUMBER: 101038,895 |
|--|--|---------------------------|
| ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE |  |                           |
| 1 _____ Wrapped Nucleics<br>Wrapped Aminos   | The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."   |                           |
| 2 _____ Invalid Line Length  | The rules require that a line not exceed 72 characters in length. This includes white spaces.  |                           |
| 3 _____ Misaligned Amino<br>Numbering  | The numbering under each 5 <sup>th</sup> amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.  |                           |
| 4 _____ Non-ASCII  | The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.   |                           |
| 5 _____ Variable Length  | Sequence(s) _____ contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.   |                           |
| 6 _____ PatentIn 2.0<br>"bug"  | A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) _____. Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.  |                           |
| 7 _____ Skipped Sequences<br>(OLD RULES)   | Sequence(s) _____ missing. If intentional, please insert the following lines for each skipped sequence:<br>(2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)<br>(i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)<br>(xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)<br>This sequence is intentionally skipped<br><br>Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences. |                           |
| 8 _____ Skipped Sequences<br>(NEW RULES)   | Sequence(s) _____ missing. If Intentional, please insert the following lines for each skipped sequence.<br><210> sequence id number<br><400> sequence id number<br>000   |                           |
| 9 _____ Use of n's or Xaa's<br>(NEW RULES)   | Use of n's and/or Xaa's have been detected in the Sequence Listing.<br>Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present.<br>In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.   |                           |
| 10 _____ Invalid <213><br>Response   | Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence  |                           |
| 11 _____ Use of <220>  | Sequence(s) _____ missing the <220> "Feature" and associated numeric identifiers and responses.<br>Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section.<br>(See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)  |                           |
| 12 _____ PatentIn 2.0<br>"bug"   | Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.  |                           |
| 13 _____ Misuse of n   | n can only be used to represent a single nucleotide in a nucleic acid sequence. N is not used to represent any value not specifically a nucleotide.  |                           |



OIPE

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/038,895

DATE: 03/02/2003

TIME: 12:42:49

Input Set : D:\3379.1.ST25.txt

Output Set: N:\CRF4\03032003\J038895.raw

3 4110 APPLICANT: Kulp, David C.

4 Siani-Rose, Michael A.

5 Williams, Alan J.

6 Harmon, Cyrus L.

7 4120 TITLE OF INVENTION: Nucleic Acids Encoding G Proteins Coupled Receptors

10 4130 FILE REFERENCE: 3379.1

11 4140 CURRENT APPLICATION NUMBER: 10/038,895

12 4141 CURRENT FILING DATE: 2001-10-24

13 4150 PRIOR APPLICATION NUMBER: US 60/244,082

14 4151 PRIOR FILING DATE: 2000-10-26

15 4160 NUMBER OF SEQ ID NOS: 20

20 4170 SOFTWARE: Prentin version 3.2

21 4210 SEQ ID NO: 1

22 4211 LENGTH: 274

23 4212 TYPE: PRT

24 4213 ORGANISM: Synthetic

25 4214 FEATURE:

26 4215 NAME/KEY: misc\_feature

27 4216 LOCATION: (1..6)..(126)

28 4217 OTHER INFORMATION: Xaa can be any naturally occurring amino acid

29 4218 FEATURE:

30 4219 NAME/KEY: misc\_feature

31 4220 LOCATION: (146)..(146)

32 4221 OTHER INFORMATION: Xaa can be any naturally occurring amino acid

33 4400 SEQUENCE: 1

40 Leu Leu Ala Pro Thr Gly Ser Leu Phe Arg Asn Cys Thr Gln Asp Gly

41 1 5 10 15

44 Trp Ser Glu Thr Phe Pro Arg Pro Asn Leu Ala Cys Gly Val Asn Val

45 20 25 30

48 Asn Asp Ser Ser Asn Glu Lys Arg Ser Tyr Leu Leu Lys Leu Lys Val

49 35 40 45

52 Met Tyr Thr Val Gly Tyr Ser Ser Ser Leu Val Met Leu Leu Val Ala

53 50 55 60

56 Leu Gly Ile Leu Cys Ala Phe Arg Arg Leu His Cys Thr Arg Asn Tyr

57 65 70 75 80

60 Ile His Met His Leu Phe Val Ser Phe Ile Leu Arg Ala Leu Ser Asn

61 85 90 95

64 Phe Ile Lys Asp Ala Val Leu Phe Ser Ser Asp Asp Val Thr Tyr Cys

65 100 105 110

W--&gt; 68 Asp Ala His Arg Gly Cys Lys Leu Val Met Val Leu Phe Xaa Tyr Cys

69 115 120 125

72 Ile Met Ala Asn Tyr Ser Trp Leu Leu Val Glu Gly Ser Thr Phe Thr

73 130 135 140

The type of errors shown exist throughout  
the Sequence Listing. Please check subsequent  
sequences for similar errors

- invalid response, see error summary  
sheet item 10

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/038,895

DATE: 03/03/2003

TIME: 12:42:49

Input Set : D:\3379.1.ST25.txt

Output Set: N:\CRF4\03032003\J038895.raw

```

76 His Xaa Leu Ala Ile Ser Phe Phe Ser Glu Arg Lys Tyr Leu Gln Gly
77 145 150 155 160
80 Phe Val Ala Phe Gly Trp Gly Ser Pro Ala Ile Phe Val Ala Leu Trp
81 165 170 175
84 Ala Ile Ala Arg His Phe Leu Glu Asp Val Gly Cys Trp Asp Ile Asn
85 180 185 190
88 Ala Asn Ala Ser Ile Trp Trp Ile Ile Arg Gly Pro Val Ile Leu Ser
89 195 200 205
91 Ile Leu Asn Phe Ile Leu Phe Ile Asn Ile Leu Arg Ile Leu Met Arg
92 210 215 220
95 Lys Leu Arg Thr Gln Glu Thr Arg Gly Asn Glu Val Ser His Tyr Lys
96 225 230 235 240
100 Arg Leu Ala Arg Ser Thr Leu Leu Leu Ile Pro Leu Phe Gly Ile His
101 245 250 255
104 Tyr Ile Val Phe Ala Phe Ser Pro Glu Asp Ala Met Glu Ile Gln Leu
105 260 265 270
108 Phe Phe

```

112 &lt;.10&gt; SEQ ID NO: 2

113 &lt;.11&gt; LENGTH: 331

114 &lt;.12&gt; TYPE: DNA

115 &lt;.13&gt; ORGANISM: Synthetic

116 &lt;.400&gt; SEQUENCE: 2

```

118 atctgggaac ccacagtttc ctgtgttcga aactgcacac aggatggctg gtcagaaaac 60
119 ttcaccaggg ctatcttggg ctgtggcggt aatgtgiaag actcttccaa cgagaagcgg 120
120 cctctctacc tgcctagctt gaaagtcacg tacacgttgg gctacagctc ctccctgggc 140
121 atgtccctgg tcctcttgg catctctcgt gctttccgga ggcctccactg cactcgaaac 160
122 tccatccaca tcacactgtt cgtgtccctt atccttctgt cctgttccaa ctccatcaag 180
123 gcccctgtgc tctctctc agatgatgt accctactgg atgccacag ggcgggctgc 200
124 aggggggaca tctgttgtt c
125 <.10> SEQ ID NO: 3
126 <.11> LENGTH: 447
127 <.12> TYPE: DNA
128 <.13> ORGANISM: Synthetic
129 <.20> FEATURE:
130 <.21> NAME/KEY: misc_feature
131 <.22> LOCATION: (53)..(53)
132 <.23> OTHER INFORMATION: n is a, c, g, or t
133 <.400> SEQUENCE: 3

```

```

W--> 145 tactgcatca tggccaacta ctcttggtct ctggtggaag gctctacctt cacacatntc 60
147 atcccatctt cctctctctc tgaagaaaag tacctccagg gatttctggc attcgcatgg 120
148 atttctccag ccatctttgt tgccttgggg gctattgcca gacactttct ggaagatgtt 140
151 ggggctctgg acatcaatgc caacgcacac atctgggtga tcattcgttg cctgtgtgatc 160
152 atcccatctt tgattaatit catctcttct ataaacatct taagaatcct gatgagaaaa 180
155 cttagaaccg aagaacaaag aggaatgaa gtcagccatt ataagcgcct ggccaggtcc 200
157 aatctctctg tcatccctct ctttggcatc cactacatcg tcttcgcctt ctcccccagag 220
158 gacatctatg agatccagct gttttt
159 <.10> SEQ ID NO: 4
160 <.11> LENGTH: 828
161 <.12> TYPE: DNA

```

## RAW SEQUENCE LISTING

DATE: 03/03/2003

PATENT APPLICATION: US/10/038,895

TIME: 12:42:49

Input Set : D:\3379.1.ST25.txt

Output Set: N:\CRF4\03032003\J038895.raw

```

165 <213> ORGANISM: Synthetic
166 <220> FEATURE:
167 <221> NAME/KEY: misc_feature
168 <222> LOCATION: (439)..(439)
169 <223> OTHER INFORMATION: n is a, c, g, or t
170 <400> SEQUENCE: 4
171 atcttgccac ccacagtttc ctgtgtccga aactgcacac aggatggctg gtcagaaacc 60
172 atccacagga ctatctggg ctgtggcgtt aatgtgaacg actcttccaa cgagaagg 120
173 caactctaac tgtgaggtt gaaagtcagt tacaccgtag gctacagctc ctccctggtc 180
174 atgctctagg tgcctctgg catccctcgt gctttccgga ggctccactg cactcgcac 240
175 caaatccaca tgcacaggt cgtgtccctc atccttcgtg cctctgccaa ctccatcaag 300
176 gaagcctctg cctctctctc agatgaagtc acctactgag atgcaccacg ggaggggctg 360
177 aagctgttca tctgtggtt ctactgcata atggcacaat actcctgggt gctgggtgaa 420
W--> 188 ggctctacct tcacacatnt cctgcgccatc tcttcttct ctgaaagaaa gtacctccag 480
189 agatcttggg cctctgtagt ggggtctcca gccattttg ttgctttgtg ggtatttgc 540
190 agacacttct tgaagttgt tgggtgctgg cacatcaatg caaacgcata cctctggtgg 600
191 atcatttggt gctcttgat cctctccata ctgattaatt tcatcctttt cctaaacatt 660
192 ctacactctc tcatgaaaa acttgaaccc caagaacaaa gaggaaatga agtcagccat 720
193 tataagcgcc tggccagtc cactctcctg ctgatccccc tctttggcat ccactacatc 780
200 atcttccctt tcccccaga ggaagctatg gagatccaga tgtttttt 828
201 <210> SEQ ID NO: 5
202 <211> LENGTH: 321
203 <212> TYPE: PRT
204 <213> ORGANISM: Synthetic
205 <400> SEQUENCE: 5
206 Pro Thr Phe Ile Leu Phe Ser Phe Gln Pro Gly Asp Lys Arg Thr Lys
207 1 5 10 15
208 His Ile Cys Val Tyr Trp Glu Gly Ser Glu Gly Gly His Trp Ser Thr
209 20 25 30
210 Leu Gly Cys Ser His Val His Ser Asn Gly Ser Tyr Thr Lys Cys Lys
211 35 40 45
212 Cys Phe His Leu Ser Ser Phe Ala Val Leu Val Ala Leu Ala Pro Lys
213 50 55 60
214 Asp Pro Val Leu Thr Val Ile Thr Gln Val Gly Leu Thr Ile Ser Leu
215 65 70 75 80
216 Leu Cys Leu Phe Leu Ala Ile Leu Thr Phe Leu Leu Cys Arg Pro Ile
217 85 90 95
218 Gln Asn Thr Ser Thr Ser Leu His Leu Glu Leu Ser Leu Cys Leu Phe
219 100 105 110
220 Leu Ala His Leu Leu Phe Leu Thr Gly Ile Asn Arg Thr Glu Pro Glu
221 115 120 125
222 Leu Cys Ser Ile Ile Ala Gly Leu Leu His Phe Leu Tyr Leu Ala Cys
223 130 135 140
224 Phe Thr Trp Met Leu Leu Glu Gly Leu His Leu Phe Leu Thr Val Arg
225 145 150 155 160
226 Asn Leu Lys Val Ala Asn Tyr Thr Ser Thr Gly Arg Phe Lys Lys Arg
227 165 170 175
228 Phe Met Tyr Pro Val Gly Tyr Gly Ile Pro Ala Val Ile Ile Ala Val
229 180 185 190

```

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/038,895

DATE: 03/03/2003

TIME: 12:41:49

Input Set : D:\3379.1.ST25.txt

Output Set: N:\CRF4\03032003\J038895.raw

```

259 Ser Ala Ile Val Gly Pro Gln Asn Tyr Gly Thr Phe Thr His Cys Trp
259      195      200      205
260 Leu Lys Leu Asp Lys Gly Phe Ile Trp Ser Phe Met Gly Pro Val Ala
260      210      215      220
261 Val Ile Ile Leu Asn Leu Val Phe Tyr Phe Gln Val Leu Trp Ile Leu
261      225      230      235      240
262 Arg Ser Lys Leu Ser Ser Leu Asn Lys Glu Val Ser Thr Ile Gln Asp
262      245      250      255
263 Thr Arg Val Met Thr Phe Lys Ala Ile Ser Gln Leu Phe Ile Leu Gly
263      260      265      270
264 Cys Ser Trp Gly Leu Gly Phe Phe Met Val Glu Glu Val Gly Lys Thr
264      275      280      285
265 Ile Gly Ser Ile Ile Ala Tyr Ser Phe Thr Ile Ile Asn Thr Leu Gln
265      290      295      300
266 Gly Val Leu Leu Phe Val Val His Cys Leu Leu Asn Arg Gln Val Arg
266      305      310      315      320

```

266 &lt;10&gt; SEQ ID NO: 6

267 &lt;11&gt; LENGTH: 969

268 &lt;12&gt; TYPE: DNA

269 &lt;13&gt; ORGANISM: Synthetic

270 &lt;400&gt; SEQUENCE: 6

```

270 cccattttta tattattctc ttccagctt cgtgacaaga gaacaaaaca tatctgtgtc      60
271 taactgggag gatcacaggg aggcacactgg tccacggagg gctgctctca tctgacacgc      120
272 taagtcttct acacaaatg caagtgttcc tatctgttcc gctttgacct cctcgtggtt      180
273 ctgttcccca agtagggccc tgtgttgacc ctgatcacc aggtggggtt gaacatctct      240
274 ctgctgtgac ctctcttgc cactctcacc tctctctgt gcgggacct ccagaaacac      300
275 aacacctccc tcatctaga gctctctct cgcctcttcc tggccacct cctgttctgt      360
276 agggctatca acagaactga gctgaggtg ctgtgttcca tcatggcagg gctgctgac      420
277 ttctctacc tgtttgtt cacttggtg ctcttggaag ggttgacct ctctctcacc      480
278 ttcaggaaac ttaggttgc caactacacc agcacgggca gattcaagaa gaggttccatg      540
279 taactgttag gtaacgggat ccagctgttg attattgtg tctcagcaat agttggaccc      600
280 cagaattatg gacatttac tcactgttgg ctcaagcttg ataaaggatt catctggaga      660
281 ttcagggggc catagagagt cattatcttg ataaaacctg tcttctactt ccaagttctg      720
282 tggattttga gaggcaact ttctctctc ataaaagaag ttccacctat tcaggacacc      780
283 aagagcatga catttaaga catttccag ctatttatcc tgggtgtgtt ttggggcctt      840
284 gtttttttta tgtttgaga agtagggag acgattggat caatcattgc atactaatc      900
285 aacatcatca acaccttca gggagtgtt ctctttgttg tacactgtct ctttaatgc      960
286 caggttaagg

```

287 &lt;10&gt; SEQ ID NO: 7

288 &lt;11&gt; LENGTH: 117

289 &lt;12&gt; TYPE: PRT

290 &lt;13&gt; ORGANISM: Synthetic

291 &lt;400&gt; SEQUENCE: 7

```

291 Gln His Ser Asp Ala Val His Asp Leu Leu Leu Asp Val Ile Thr Trp
291      1      5      10      15
292 Val Gly Ile Leu Leu Ser Leu Val Cys Leu Leu Ile Cys Ile Phe Thr
292      20      25      30
293 Phe Cys Phe Phe Arg Gly Leu Gln Ser Asp Arg Asn Thr Ile His Lys
293      35      40      45

```

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/038,895

DATE: 03/03/2003

TIME: 12:42:49

Input Set : D:\3379.1.ST25.txt

Output Set: N:\CRF4\03032003\J038895.raw

```

350 Asn Leu Cys Ile Ser Leu Phe Val Ala Glu Leu Leu Phe Leu Ile Gly
361      50      55      60
364 Ile Asn Arg Thr Asp Gln Pro Ala Cys Ala Val Phe Ala Ala Leu Leu
365 65      70      75      80
368 His Phe Phe Phe Leu Ala Ala Phe Thr Trp Met Phe Leu Glu Gly Val
369      85      90      95
372 Gln Leu Tyr Ile Met Leu Val Glu Val Phe Glu Ser Glu His Ser Arg
383      100      105      110
386 Arg Lys Tyr Phe Tyr Leu Val Gly Tyr Gly Met Pro Ala Leu Ile Val
387      115      120      125
390 Ala Val Ser Ala Ala Val Asp Tyr Arg Ser Tyr Gly Thr Asp Lys Val
391      130      135      140
394 Cys Trp Leu Arg Leu Asp Thr Tyr Phe Ile Trp Ser Phe Ile Gly Pro
395 145      150      155      160
397 Ala Thr Leu Ile Ile Met Asn Val Ile Phe Leu Gly Ile Ala Leu Tyr
398      165      170      175
399 Lys Met Phe His His Thr Ala Ile Leu Lys Pro Glu Ser Gly Cys Leu
400      180      185      190
402 Asp Asn Ile Lys Leu Lys Ile Asn Ile Pro Ile Ile Lys Ser Ile Tyr
403      195      200      205
406 Ile Tyr Met Tyr Ile Cys Met Cys Val
411      210      215

```

414 &lt;210&gt; SEQ ID NO: 1

415 &lt;211&gt; LENGTH: 657

416 &lt;212&gt; TYPE: DNA

417 &lt;213&gt; ORGANISM: Synthetic

418 &lt;400&gt; SEQUENCE: 8

```

400 cagcacagtg atcggggtcca tgacctcctt ctggatgtga tcaagtgggt tggaaatttg      60
401 cagtcaccttg ttgtatcctt gatttgcatc ttcacatttt gcttttttcg ggggtccag      120
402 atgacacgta acacacatcca caagaacctc tgcacagtc tctttgtagc agagctgctc      180
403 ttcctggttg ggtcaccccg aactgaccaa ccaattgctt gtgctgtttt cgttgccctg      240
404 ttaattttt tctcttggc tgccttcacc tggatgttcc tggagggggt gcagctttat      300
405 atcatgcttg tgaggtttt tgagagtga ctttcacgta ggaaatactt tttctggtc      360
406 gctatgggga tgatgcact cattgtggct gtgtcagctg cagtagacta caggagttaa      420
407 ggaacagata aagtatgttg gctccgactt gacacctact tcaattggag ttttatagga      480
408 ccagcacctt tgataattat gcttaangta atcttccttg ggattgtttt atataaaaatg      540
409 ttctacata ctgtatact gaaacctgaa tcaggtgttc ttgataacat caagttaaaa      600
410 ataatattc caataaaa atctatstat atctatatgt atatatgcac gtgtgtg      657

```

413 &lt;100&gt; SEQ ID NO: 2

414 &lt;211&gt; LENGTH: 304

415 &lt;212&gt; TYPE: PRT

416 &lt;213&gt; ORGANISM: Synthetic

417 &lt;400&gt; SEQUENCE: 3

```

400 Gly Asn Val Ala Val Ala Phe Val Tyr Tyr Lys Ser Ile Gly Pro Leu
401 1      5      10      15
404 Leu Ser Ser Ser Asp Asn Phe Leu Leu Lys Pro Gln Asn Tyr Asp Asn
405      20      25      30
408 Ser Glu Glu Glu Glu Arg Val Ile Ser Ser Val Ile Ser Val Ser Met
409      35      40      45

```

RAW SEQUENCE LISTING ERROR SUMMARY  
PATENT APPLICATION: US/10/038,895

DATE: 03/03/2003  
TIME: 12:42:50

Input Set : D:\3379.1.ST25.txt  
Output Set: N:\CRF4\03032003\J038895.raw

**Please Note:**

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; Xaa Pos. 126,146  
Seq#:3; N Pos. 58  
Seq#:4; N Pos. 439  
Seq#:19; Xaa Pos. 370



## VERIFICATION SUMMARY

PATENT APPLICATION: US/10/038,895

DATE: 03/03/2003

TIME: 12:42:50

Input Set : D:\3379.1.ST25.txt

Output Set: N:\CRF4\03032003\J038895.raw

L:68 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:112  
M:341 Repeated in SeqNo=1  
L:145 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:0  
L:188 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:420  
L:1530 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19 after pos.:368